PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 002441.00093	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2004/030032 International filing date (day/month/year) 15 September 2004 (15.09.2004)		Priority date (day/month/year) 15 September 2003 (15.09.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant CHIRON CORPORATION			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).			
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI Certain documents cited			
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.	. The International Bureau will communicate this report to designated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 93 <i>bis</i> .1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44 <i>bis</i> .2).			

Date of issuance of this report 16 March 2006 (16.03.2006)

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY REBECCA M. HALE REC'D 0 8 DEC 2005 CHIRON CORPORATION 4560 HORTON STREET WRITTEN OPINION OF THE EMERYVILLE, CA 94608-2916 INTERNATIONAL SEARCHIPG AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) 0 6 FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 002441.00093 International filing date (day/month/year) Priority date (day/month/year) International application No. 15 September 2003 (15.09.2003) 15 September 2004 (15.09.2004) PCT/US04/30032 International Patent Classification (IPC) or both national classification and IPC IPC(7): A61K 39/385, 39/116, 39/00, 39/02, 39/38, 39/09 and US Cl.: 424/197.11, 203.1, 192.1, 190.1, 184.1, 244.1 Applicant CHIRON CORPORATION 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Certain observations on the international application Box No. VIII 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Authorized officer Date of completion of this opinion Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US S. Devi, Ph.D. 09 November 2005 (09.11.2005) Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Telephone No. (571) 272-1600

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US04/30032	

Box N	o. I Basis of this opinion				
1. With	regard to the language, this opinion has been established on the basis of:				
\boxtimes	the international application in the language in which it was filed				
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).				
2. With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:				
a.	a. type of material				
	a sequence listing				
	table(s) related to the sequence listing				
ъ.	format of material				
	On paper				
	in electronic form				
c.	time of filing/furnishing				
	contained in the international application as filed.				
	filed together with the international application in electronic form.				
	furnished subsequently to this Authority for the purposes of search.				
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Addi	itional comments:				

Form PCT/ISA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US04/30032	

Box No. IV Lack of unity of invention				
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time lipaid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applications.			
2.	pay additional fees.			
3.	This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is			
	complied with			
	not complied with for the following reasons:			
	See the lack of unity section of the International Search Report(Form PCT/ISA/210)			
4. 0	onsequently, this opinion has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos. 1-17			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (April 2005)

International application No. PCT/US04/30032

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	NONE	YES
110 (0.1)		1-17	
Inventive step (IS)		NONE	
	Claims	1-17	NO
Industrial applicability (IA)	Claims	1-17	YES
	Claims	NONE	NO
2. Citations and explanations:	•		
Claims 1-17 lack novelty under PCT Article 33(2) as be CHIRON CORPORATION taught a composit	ing anticipat	ted by CHIRON CORPORATION (WO 2004	1/041157 A2).
sequence of SEQ ID NO: 2 or a fragment thereof, and G	BS 322 anti	gen or a GBS saccharide antigen. The antige	n combination in the
composition can consist of 2-5 GBS antigens and include	es GBS 80,	GBS 104, GBS 276, GBS 91, GBS 184 etc.	
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